Name		Data
AP Physics	enderen	DateAP Review #   U
Period		Mrs. Nadworny
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	Ar Neview #	
	B $A$ $D$	T MADIN
4. (7 points, suggested time 13 minutes)		a) green
A circuit contains a battery and four id	lentical resistors arranged as	shown in the diagram above.
(a) Rank the magnitude of the potenti	al difference across each resi e same magnitude, state that o	stor from greatest to least. If any resistors explicitly. Briefly explain your reasoning.
	,	U35 (
Brief explanation: B+C are i	n parallel, so 4	my have equivalent potential
Resistor B is now removed from the ci The new circuit diagram is shown belo	rcuit, and there is no connect	Liss total resistance thruged ion between the wires that were attached to it. Liss
	· · · · · · · · · · · · · · · · · · ·	Voltage. A+D are identical resistors 50
		I dentical resistors so They get the same Voltage.
(b) When resistor $B$ is removed, does	the current through resistor A	increase, decrease, or remain the same?
IncreaseDecrease	Remain the same	
Briefly explain your reasoning.	m Persent	
Increase Decrease Briefly explain your reasoning.	Remain the same  Removing resistance  Which decre	increase, decrease, or remain the same?  Tesistor B increases the tance of the circuit, reases the total current, what travels through A.
C) Although the to was splitting the mas splitting the most of IT, increased the company of the	ne total befor	reases, resistor C e and now gets al
(1) inon or IT, Increas	113 COLLEN	